

POLYGLASS

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TYPE:	A TWO PACK COLD CURED POLYESTER/ACRYLIC CO-POLYMER ENHANCED WITH FLAKED GLASS.
SUGGESTED USE:	Immersion; such as marine, hydro carbon, aqueous and corrosive chemical environments. Also applicable where aggressive atmospheric conditions appertain.
LIMITATIONS:	Not suitable for protection against polar solvents, demineralised water and where pH conditions are below 1 or above 12.
HEALTH & SAFETY:	Before handling or using this product the material safety data sheet should be read and all precautions observed.
SURFACE PREPARATION:	Metals; grit blast to SIS 05 5900 SA 2.5 standard. For full details refer to Corrocoat Surface Specification SP1. Concrete; grit blast to remove surface laitance. See Corrocoat Surface Specification SP5.
APPLICATION EQUIPMENT:	For standard Polyglass; Graco King 45:1 or similar airless pump, 10mm diameter (3/8") nylon lines. Large bore mastic type gun with 30 to 60 thou reversible or titan adjustable tip. As a guide, a typical tip size would be 31-35 thou with a 60° fan pattern. The size of tip and fan pattern will vary dependent upon the nature of the work. For Polyglass HA; brush, roller or trowel.
APPLICATION:	Dependent on intended use and prevailing site conditions, but Polyglass is normally applied in wet films between 500 and 1000 microns. Polyglass Primer PPA should be used where advised. For further details see Polyglass Application Data Sheet.
MIXING RATIO/MIXING:	98:2 base to hardener. For use on inhibitor and mixing instructions refer to Polyglass Application Data Sheet.
POT LIFE:	Variable to suit site conditions, refer to Polyglass Application Data Sheet.
THINNERS:	The performance of Polyglass can be adversely affected by the addition of solvent thinners and their use is prohibited. Thinning can be achieved by the addition of not more than 5:100 styrene monomer to Polyglass by volume i.e. maximum 1.00 litres styrene per 20 litres Polyglass.
PACKAGING:	Polyglass: 20 litre composites. Polyglass HA: 20 litre and 5 litre composites.
STORAGE LIFE:	12 months stored at temperatures below 24°C and away from heat sources and direct sunlight. Frequent temperature cycling will shorten storage life.
COLOUR AVAILABILITY:	Off white as standard, Green, Yellow, Red Oxide and Black to order.

RECOMMENDED DFT:	750 microns in atmospheric and aqueous conditions. 1000 microns in marine conditions. 1500 microns plus in highly corrosive conditions.
THEORETICAL SPREADING RATE:	1.33m ² /litre at 750 microns.
VOLUME SOLIDS:	This material contains volatile liquid convertible to solids. Volume solids obtained will vary dependent upon polymerisation conditions. Nominally 99.95% of the contents are convertible to solid.
PRACTICAL SPREADING RATE:	1.06m ² /litre at 750 microns. Note: This information is given in good faith but may increase dependent upon environment conditions, the geometry and nature of work undertaken and the skill and care of application. Corrocoat accept no responsibility for any deviation from these values.
SPECIFIC GRAVITY:	Polyglass base: 1.21 gms/cc Hardener: 1.07 gms/cc
FLASH POINT:	26 ⁰ C
CATALYST TYPE:	Methyl Ethyl Ketone Peroxide, type P1 - Spray Applications only. Use type P2 on all hand applications.
MIXING RATIO:	98:2 base to hardener, refer to Application Data Sheet for inhibitor levels.
HARDNESS:	40 Barcol.
TENSILE STRENGTH:	25.5 N/mm ² (3700 psi)
ELONGATION AT BREAK:	1.3% in aqueous immersion.
THERMAL COEFFICIENT OF LINEAR EXPANSION:	13.968 x 10 ⁻⁶ / ⁰ C.
DIELECTRIC STRENGTH:	18 - 25 x 10 ³ V/mm.
THERMAL CONDUCTIVITY:	0.398 W/m ⁰ K
TEMPERATURE LIMITS:	100 ⁰ C immersed. 140 ⁰ C non-immersed. No known lower limit.
ABRASION RESISTANCE:	430 mg loss/1000 cycles/1000 gm load.
OVERCOATING:	May take place as soon as the previous coat has gelled and whilst still tacky. Maximum overcoating time is 72 hours. For times in excess of 72 hours and for overcoating on concrete substrates, refer to Corrocoat for special instructions.
CURING TIME:	With standard inhibitor level, tack free 6 hours, full cure 3-4 days at 20 ⁰ C, but may be immersed in many environments after 8 hours.
CLEANING SOLVENT:	Methyl Ethyl Ketone, Methyl Iso Butyl Ketone - before gel.

Reviewed 05th October 2001 – No changes